PATENT COOPERATION TREATY

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JUL 05 2005

From the INTERNATIONAL SEARCHING AUTHORITY

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To: PFIZER INC. Attn. Fuller, Grover F. Jr. 201 Tabor Road Morris Plains, NJ 07950 UNITED STATES OF AMERICA	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION		
	(PCT Rule 44.1)		
	Date of mailing (day/month/year) 01/07/2005		
Applicant's or agent's file reference			
PC32199A	FOR FURTHER ACTION See paragraphs 1 and 4 below		
International application No.	international filing date		
PCT/IB2005/000610	(day/month/year) 04/03/2005		
Applicant PHARMACIA & UPJOHN COMPANY LLC			
PHARMACIA & OFFICIAL COMPANY LIBE			

1.	x	The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.
		Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international Application (see Rule 46): When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the international Search Report; however, for more details, see the notes on the accompanying sheet.
		Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Fascimile No.: (41–22) 740.14.35
		For more detailed Instructions, see the notes on the accompanying sheet.
2.		The applicant is hereby notified that no International search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.
3.		With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:
		the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.
		no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.
		ninders
	Inter appl	rtly after the expiration of 18 months from the priority date, the international application will be published by the mational Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international ication, or of the priority claim, must reach the international Bureau as provided in Rules 90 <i>bis</i> .1 and 90 <i>bis</i> .3, respectively, are the completion of the technical preparations for international publication.
	Inter	applicant may submit comments on an informal basis on the written opinion of the international Searching Authority to the mational Bureau. The international Bureau will send a copy of such comments to all designated Offices unless an national preliminary examination report has been or is to be established. These comments would also be made available to public but not before the expiration of 30 months from the priority date.
	exan date	in 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary mination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed for entry into the national phase before those designated Offices.
	mon In re	spect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 ths.
	See Guid	the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's te, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the international Searching Authority	Authorized officer
European Patent Office, P.B. 5818 Patentiaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Catriona Cleere

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international proliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later, it should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Plute 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been in filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
 claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- Where originally there were 15 claims and after amendment of all claims there are 11]: *Claims 1 to 15 replaced by amended claims 1 to 11.*
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims):
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 reptaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the latter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

Notes to Form PCT/ISA/220 (second sheet) (January 1994)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220		
PC32199A	ACTION	well as, where applicable, Item 5 below.		
International application No.	International filing date (day/month/ye	(Earliest) Priority Date (day/month/year)		
PCT/IB2005/000610	04/03/2005	04/03/2005 17/03/2004		
Applicant				
PHARMACIA & UPJOHN COMPANY	LLC			
This international Search Report has been prepared by this international Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the international Bureau.				
This International Search Report consists	of a total of 5 sheet:	, ·		
·	a copy of each prior art document cited			
1. Basis of the report		u - back of the internetional conficulton in the		
 With regard to the language, the language in which it was filed, uni 	international search was carried out on ess otherwise indicated under this item	the basis of the international application in the		
The International this Authority (Ru	search was carried out on the basis of a le 23.1(b)).	a translation of the international application furnished to		
b. With regard to any nucleo	otide and/or amino acid sequence dis	closed in the international application, see Box No. I.		
2. X Certain claims were fou	nd unsearchable (See Box II).			
3. Unity of invention is lac	king (see Box III).			
4. With regard to the title,				
X the text is approved as su	bmitted by the applicant.			
the text has been establis	hed by this Authority to read as follows	:		
5. With regard to the abstract,				
the text is approved as su	bmitted by the applicant.	·		
X the text has been establis	hed, according to Rule 38.2(b), by this	Authority as it appears in Box No. IV. The applicant		
may, within one month fro	m the date of mailing of this internation	al search report, submit comments to this Authority.		
6. With regard to the drawings,				
a. the figure of the drawings to be p	ublished with the abstract is Figure No			
X as suggested by t	he applicant.			
as selected by thi	s Authority, because the applicant falle	d to suggest a figure.		
	s Authority, because this figure better of	haracterizes the invention.		
b. none of the figures is to be	e published with the abstract.			

International application No.

INTERNATIONAL SEARCH REPORT

PCT/IB2005/000610

Box No. IV Text of the abstract (Continuation of Item 5 of the first sheet)

The methods of the invention relate to methods for preventing testicular infection by bovine viral diarrhea virus by immunizing susceptible male animals against infection.

INTERNATIONAL SEARCH REPORT

International Application No PCT/IB2005/000610

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61K39/12 A61K39/295			
A consultant to	o International Patent Classification (IPC) or to both national classifica	ntion and IPC	
	SEARCHED	uni die i V	
	cumentation searched (classification system followed by classification	on symbols)	
	ion searched other than minimum documentation to the extent that ${f s}$		
	ata base consulted during the International search (name of data base)
EPO-In	ternal, BIOSIS, EMBASE, WPI Data, PA	J, CHEM ABS Data	
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Calegory *	Citation of document, with indication, where appropriate, of the rela	evant passages	Relevant to claim No.
A	FRAY M D ET AL: "The effects of viral diarrhoea virus on cattle reproduction in relation to disea control"		1-18
	ANIMAL REPRODUCTION SCIENCE, vol. 60-61, no. Special Issue, 2 July 2000 (2000-07-02), pages 6 XP002331833 ISSN: 0378-4320 the whole document	15–627,	
A	cattle against bovine viral diarrhoea" VETERINARY MICROBIOLOGY, vol. 64, no. 2-3, January 1999 (1999-01), pages 169-183, XP002331834 ISSN: 0378-1135 the whole document		1-18
		-/	
X Funt	ner documents are listed in the continuation of box C.	Patent family members are listed in	n annex.
"A" docume	*Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention		
filling d "L" docume which	ide int which may throw doubts on priority claim(s) or is clied to establish the publication date of another	"X" document of particular relevance; the c cannot be considered novel or cannot involve an inventive step when the do "Y" document of particular relevance; the c	be considered to cument is taken alone
diation	n or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or	cannot be considered to involve an im- document is combined with one or mo ments, such combination being obvious	ventive step when the ore other such docu-
	ent published prior to the international filing date but an the priority date claimed	in the art. "&" document member of the same patent	family
Date of the	ectual completion of the international search	Date of mailing of the international sea	rch report
1	5 June 2005	01/07/2005	
Name and n	nailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer	
NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016			

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INTERNATIONAL SEARCH REPORT

International Application No PCT/IB2005/000610

		PC1/16200	3/00010
C.(Continu	sustion) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
A	BOLIN S R: "Control of bovine viral diarrhea infection by use of vaccination." THE VETERINARY CLINICS OF NORTH AMERICA. FOOD ANIMAL PRACTICE. NOV 1995, vol. 11, no. 3, November 1995 (1995-11), pages 615-625, XP009049066 ISSN: 0749-0720 cited in the application the whole document		1-18
',A	GIVENS M D ET AL: "BOVINE VIRAL DIARRHEA VIRUS IN EMBRYO AND SEMEN PRODUCTION SYSTEMS" VETERINARY CLINICS OF NORTH AMERICA. FOOD ANIMAL PRACTICE, SAUNDERS, PHILADELPHIA, PA, US, vol. 20, no. 1, March 2004 (2004-03), pages 21-38, XP009047210 ISSN: 0749-0720 page 30, paragraph 3 - page 34, last paragraph		1-18
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International application No. PCT/IB2005/000610

INTERNATIONAL SEARCH REPORT

ters ,

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This international Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: 1-9 because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 1-9 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
· · · · · · · · · · · · · · · · · · ·
Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This international Searching Authority found multiple inventions in this international application, as follows:
As all required additional search tees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest.
No protest accompanied the payment of additional search fees.